

AMPHENOL MS/Standard Connectors **Amphenol**[®]

MIL-DTL-5015 TYPE CIRCULAR CONNECTORS (CONT.)

E/F-Type - Environmental Resisting

MS Class F connectors satisfy all the performance requirements of MIL-DTL-5015. These connectors are recommended for conditions where vibration, moisture, pressure and temperatures are extreme. Inserts provide an outstanding moisture barrier, high dielectric strength and resistance to vibration. Either pin or socket insert can be pressurized.

Box Mount Receptacles

Straight Plugs

For quantities greater than listed, call for quote.

# of Pos.	Insert Arrangement	Contact Size	MOUSER STOCK NO.	Amphenol Part No.	Contact Type	Price Each			MOUSER STOCK NO.	Amphenol Part No.	Contact Type	Price Each		
						1	5	10				1	5	10
2	10SL-4	#16	654-MS3102E10SL-4P	MS3102E10SL-4P	Pin	6.49	6.18	5.89	654-MS3106F10SL-4S	MS3106F10SL-4S	Socket	16.98	16.52	15.21
2	16-11	#12	654-MS3102E16-11P	MS3102E16-11P	Pin	9.96	9.05	8.30	654-MS3106F16-11S	MS3106F16-11S	Socket	29.01	26.79	24.01
2	16-11	#12	654-MS3102E16-11S	MS3102E16-11S	Socket	11.59	11.10	9.49	654-MS3106F16-11P	MS3106F16-11P	Pin	27.76	25.21	23.33
3	10SL-3	#16	654-MS3102E-10SL-3P	MS3102E-10SL-3P	Pin	7.11	6.70	6.43	654-MS3106F-10SL-3S	MS3106F-10SL-3S	Socket	17.64	15.98	14.22
3	10SL-3	#16	654-MS3102E10SL-3S	MS3102E10SL-3S	Socket	11.69	10.64	9.74	654-MS3106F10SL-3P	MS3106F10SL-3P	Pin	20.75	17.55	14.40
3	14S-7	#16	654-MS3102E14S-7P	MS3102E14S-7P	Pin	7.35	6.93	6.42	654-MS3106F14S-7S	MS3106F14S-7S	Socket	20.41	18.97	18.12
3	14S-7	#16	654-MS3102E14S-7S	MS3102E14S-7S	Socket	7.54	7.37	7.21	654-MS3106F14S-7P	MS3106F14S-7P	Pin	17.83	15.99	15.04
3	16-10	#12	654-MS3102E16-10P	MS3102E16-10P	Pin	8.45	8.05	7.65	654-MS3106F16-10S	MS3106F16-10S	Socket	29.81	27.43	25.36
3	16-10	#12	654-MS3102E16-10S	MS3102E16-10S	Socket	12.81	12.26	10.48	654-MS3106F16-10P	MS3106F16-10P	Pin	28.87	24.96	22.28
3	20-3	#12	654-MS3102E20-3P	MS3102E20-3P	Pin	13.25	12.69	10.84	654-MS3106F20-3S	MS3106F20-3S	Socket	35.53	32.47	29.90
3	20-3	#12	654-MS3102E20-3S	MS3102E20-3S	Socket	15.17	14.52	12.41	654-MS3106F20-3P	MS3106F20-3P	Pin	35.48	33.97	29.03
4	14S-2	#16	654-MS3102E14S-2P	MS3102E14S-2P	Pin	7.53	7.24	6.81	654-MS3106F14S-2S	MS3106F14S-2S	Socket	19.88	17.71	16.37
4	14S-2	#16	654-MS3102E14S-2S	MS3102E14S-2S	Socket	7.99	7.81	7.47	654-MS3106F14S-2P	MS3106F14S-2P	Pin	14.43	13.19	12.15
4	18-4	#16	654-MS3102E18-4P	MS3102E18-4P	Pin	11.68	10.62	9.73	654-MS3106F18-4S	MS3106F18-4S	Socket	31.58	26.97	24.04
4	18-4	#16	654-MS3102E18-4S	MS3102E18-4S	Socket	13.82	13.23	11.31	654-MS3106F18-4P	MS3106F18-4P	Pin	31.57	30.23	25.83
4	20-4	#12	654-MS3102E20-4P	MS3102E20-4P	Pin	12.20	11.10	10.06	654-MS3106F20-4S	MS3106F20-4S	Socket	23.48	21.68	20.13
4	20-4	#12	654-MS3102E20-4S	MS3102E20-4S	Socket	13.29	12.78	11.54	654-MS3106F20-4P	MS3106F20-4P	Pin	30.64	28.28	26.25
4	22-22	#8	654-MS3102E22-22P	MS3102E22-22P	Pin	19.43	17.80	16.35	654-MS3106F22-22S	MS3106F22-22S	Socket	38.89	35.26	33.14
4	22-22	#8	654-MS3102E22-22S	MS3102E22-22S	Socket	27.18	25.44	22.86	654-MS3106F22-22P	MS3106F22-22P	Pin	40.52	37.15	34.29
5	14S-5	#16	654-MS3102E14S-5P	MS3102E14S-5P	Pin	7.83	7.57	7.24	654-MS3106F14S-5S	MS3106F14S-5S	Socket	19.09	18.57	17.16
5	14S-5	#16	654-MS3102E14S-5S	MS3102E14S-5S	Socket	9.49	9.05	8.57	654-MS3106F14S-5P	MS3106F14S-5P	Pin	16.88	15.58	14.35
5	18-11	#12	654-MS3102E18-11P	MS3102E18-11P	Pin	10.88	10.57	10.25	654-MS3106F18-11S	MS3106F18-11S	Socket	29.59	28.46	26.91
5	16S-8	#16	654-MS3102E16S-8P	MS3102E16S-8P	Pin	8.87	8.17	7.53	654-MS3106F16S-8S	MS3106F16S-8S	Socket	31.53	30.19	25.80
6	14S-6	#16	654-MS3102E14S-6P	MS3102E14S-6P	Pin	7.83	7.67	7.45	654-MS3106F14S-6S	MS3106F14S-6S	Socket	16.61	15.77	14.90
6	14S-6	#16	654-MS3102E14S-6S	MS3102E14S-6S	Socket	9.19	8.99	8.79	654-MS3106F14S-6P	MS3106F14S-6P	Pin	18.13	16.83	15.66
7	16S-1	#16	654-MS3102E16S-1P	MS3102E16S-1P	Pin	11.04	10.12	9.34	654-MS3106F16S-1S	MS3106F16S-1S	Socket	27.98	25.58	23.54
7	16S-1	#16	654-MS3102E16S-1S	MS3102E16S-1S	Socket	10.28	10.06	9.85	654-MS3106F16S-1P	MS3106F16S-1P	Pin	22.08	20.44	18.45
8	20-7	#16	654-MS3102E20-7S	MS3102E20-7S	Socket	15.51	14.22	13.79	654-MS3106F20-7P	MS3106F20-7P	Pin	32.79	28.82	27.15
8	20-7	#16	654-MS3102E20-7P	MS3102E20-7P	Pin	14.62	13.29	12.18	654-MS3106F20-7S	MS3106F20-7S	Socket	37.14	34.05	31.43
9	24-11	3#8/6#12	654-MS3102E24-11S	MS3102E24-11S	Socket	34.19	32.73	27.97	654-MS3106F24-11P	MS3106F24-11P	Pin	48.64	46.57	39.80
10	18-1	#16	654-MS3102E18-1P	MS3102E18-1P	Pin	11.15	10.66	10.45	654-MS3106F18-1S	MS3106F18-1S	Socket	21.92	19.97	19.00
10	18-1	#16	654-MS3102E18-1S	MS3102E18-1S	Socket	13.57	13.05	12.29	654-MS3106F18-1P	MS3106F18-1P	Pin	23.13	22.17	21.55
14	20-27	#16	654-MS3102E20-27P	MS3102E20-27P	Pin	19.06	18.24	15.59	654-MS3106F20-27S	MS3106F20-27S	Socket	35.95	32.42	29.08
14	20-27	#16	654-MS3102E20-27S	MS3102E20-27S	Socket	15.94	14.57	13.42	654-MS3106F20-27P	MS3106F20-27P	Pin	41.43	39.66	33.89
14	22-19	#16	654-MS3102E22-19S	MS3102E22-19S	Socket	24.02	23.00	19.65	654-MS3106F22-19P	MS3106F22-19P	Pin	41.32	39.56	33.81
17	20-29	#16	654-MS3102E20-29P	MS3102E20-29P	Pin	15.10	14.75	13.90	654-MS3106F20-29S	MS3106F20-29S	Socket	31.25	28.99	27.96
17	20-29	#16	654-MS3102E20-29S	MS3102E20-29S	Socket	19.65	18.23	16.35	654-MS3106F20-29P	MS3106F20-29P	Pin	43.15	41.31	35.31
19	22-14	#16	654-MS3102E22-14P	MS3102E22-14P	Pin	15.10	13.84	13.11	654-MS3106F22-14S	MS3106F22-14S	Socket	50.57	48.41	41.37
19	22-14	#16	654-MS3102E22-14S	MS3102E22-14S	Socket	28.28	27.08	23.14	654-MS3106F22-14P	MS3106F22-14P	Pin	37.13	34.27	31.83
24	24-28	#16	654-MS3102E24-28P	MS3102E24-28P	Pin	26.29	25.17	21.51	654-MS3106F24-28S	MS3106F24-28S	Socket	61.73	59.11	50.50
24	24-28	#16	654-MS3102E24-28S	MS3102E24-28S	Socket	35.37	33.86	28.94	654-MS3106F24-28P	MS3106F24-28P	Pin	51.60	49.41	42.22
37	28-21	#16	654-MS3102E28-21P	MS3102E28-21P	Pin	31.52	28.90	25.50	654-MS3106F28-21S	MS3106F28-21S	Socket	66.74	60.08	52.35
37	28-21	#16	654-MS3102E28-21S	MS3102E28-21S	Socket	40.22	38.95	36.86	654-MS3106F28-21P	MS3106F28-21P	Pin	56.95	51.97	46.26

Amphenol Circular Connectors

R-Type - Lightweight Environmental

Specification requirements for greater reliability in a shorter, lighter weight environmental resistant connector led to the design of the MS-R. MS Class R connectors satisfy all the performance requirements of MIL-DTL-5015.

This low profile assembly was attained by moving the axial compression nut and grommet assembly forward and flush with the rear of the insert. The neoprene grommet, with its low coefficient of friction, assures easier threading of wire bundles and quicker assembly and serviceability of the unit. Molded webs in each wire hole insure a moisture barrier around each wire.

The addition of an "O" ring at the main joint of all MS3106R plugs provide a main joint seal supplementary to the interfacial seal, thus insuring a higher degree of reliability when connector halves from different sources are employed. MS-R types are recommended for new design applications.

Inserts provide an outstanding moisture barrier, maximum vibration resistance and high dielectric strength. Either pin or socket insert can be pressurized.

Box Mount Receptacles

Straight Plugs

For quantities greater than listed, call for quote.

# of Pos.	Insert Arrangement	Contact Size	MOUSER STOCK NO.	Amphenol Part No.	Contact Type	Price Each			MOUSER STOCK NO.	Amphenol Part No.	Contact Type	Price Each		
						1	5	10				1	5	10
2	10SL-4	#16	654-MS3102R10SL-4P	MS3102R10SL-4P	Pin	5.06	4.76	4.37	654-MS3106R10SL-4S	MS3106R10SL-4S	Socket	23.44	20.95	19.02
2	16-11	#12	654-MS3102R16-11P	MS3102R16-11P	Pin	7.86	7.46	7.16	654-MS3106R16-11S	MS3106R16-11S	Socket	22.83	20.57	18.46
2	16-11	#12	654-MS3102R16-11S	MS3102R16-11S	Socket	11.59	11.10	9.49	654-MS3106R16-11P	MS3106R16-11P	Pin	25.72	24.63	21.05
3	16-10	#12	654-MS3102R16-10S	MS3102R16-10S	Socket	12.22	11.17	10.27	654-MS3106R16-10P	MS3106R16-10P	Pin	26.07	24.96	21.33
3	10SL-3	#16	654-MS3102R10SL-3P	MS3102R10SL-3P	Pin	6.05	5.97	5.45	654-MS3106R10SL-3S	MS3106R10SL-3S	Socket	15.47	14.87	14.01
3	10SL-3	#16	654-MS3102R10SL-3S	MS3102R10SL-3S	Socket	12.70	12.16	10.39	654-MS3106R10SL-3P	MS3106R10SL-3P	Pin	26.13	23.95	22.10
3	14S-7	#16	654-MS3102R14S-7P	MS3102R14S-7P	Pin	9.10	8.40	7.89	654-MS3106R14S-7S	MS3106R14S-7S	Socket	20.66	18.94	17.48
3	16-10	#12	654-MS3102R16-10P	MS3102R16-10P	Pin	9.04	8.25	7.59	654-MS3106R16-10S	MS3106R16-10S	Socket	25.50	23.38	21.58
3	14S-7	#16	654-MS3102R14S-7S	MS3102R14S-7S	Socket	10.67	10.21	8.73	654-MS3106R14S-7P	MS3106R14S-7P	Pin	21.30	20.39	17.43
4	14S-2	#12	654-MS3102R14S-2P	MS3102R14S-2P	Pin	6.40	5.65	5.21	654-MS3106R14S-2S	MS3106R14S-2S	Socket	19.91	18.34	16.50
4	20-4	#16	654-MS3100R20-4S	MS3100R20-4S	Socket	37.70	36.10	30.85	654-MS3106R20-4P	MS3106R20-4P	Pin	37.38	35.79	30.59
4	14S-2	#16	654-MS3102R14S-2S	MS3102R14S-2S	Socket	8.23	7.78	7.52	654-MS3106R14S-2P	MS3106R14S-2P	Pin	17.67	16.23	14.99
4	20-4	#12	654-MS3102R20-4P	MS3102R20-4P	Pin	15.37	14.18	12.94	654-MS3106R20-4S	MS3106R20-4S	Socket	39.82	38.12	32.58
5	14S-5	#16	654-MS3102R14S-5P	MS3102R14S-5P	Pin	9.29	8.52	7.86	654-MS3106R14S-5S	MS3106R14S-5S	Socket			